

AMENDMENTS

Please cancel claims 1-7 and 12-13, without prejudice.

Please enter the following new claims:

44. (New) An isolated nucleic acid comprising at least 12 bases in length, and that hybridizes to the sense or antisense strand of a second nucleic acid under moderately stringent or highly stringent hybridization conditions, wherein said second nucleic acid has a sequence as set forth in SEQ ID NO:31.

45. (New) The isolated nucleic acid of claim 44, wherein said hybridization conditions are moderately stringent hybridization conditions, wherein said hybridization conditions include 1-15 ng/mL of isolated nucleic acid probe hybridizing to said second nucleic acid bound to a nitrocellulose filter, hybridization in 25 mM KPO₄ (pH 7.4), 5X SSC, 5X Denhart's solution, 50 µg/mL denatured sonicated salmon sperm DNA, 50% formamide, 10% Dextran sulfate at 42°C, with washes at 50°C in 2X SSC and 0.1% SDS.

46. (New) The isolated nucleic acid of claim 44, wherein said hybridization conditions are highly stringent hybridization conditions, wherein said hybridization conditions include 1-15 ng/mL of isolated nucleic acid probe hybridizing to said second nucleic acid bound to a nitrocellulose filter, hybridization in 25 mM KPO₄ (pH 7.4), 5X SSC, 5X Denhart's solution, 50 µg/mL denatured sonicated salmon sperm DNA, 50% formamide, 10% Dextran sulfate at 42°C, with washes at 50°C in 2X SSC and 0.1% SDS.

47. (New) An isolated nucleic acid that encodes an amino acid sequence set forth in SEQ ID NO:32.

48. (New) An isolated nucleic acid comprising a nucleic acid sequence at least 80 percent identical to the sequence set forth in SEQ ID NO:31 and that is expressed in response to seizure or ischemia.

49. (New) An isolated nucleic acid comprising nucleic acid sequence that encodes an amino acid sequence at least 70 percent identical to the sequence set forth in SEQ ID NO:32 and that is expressed in response to seizure or ischemia.

50. (New) An isolated nucleic acid comprising a nucleic acid sequence as set forth in SEQ ID NO:31.

51. (New) A host cell containing an isolated nucleic acid of claim 44.

52. (New) The host cell of claim 51, wherein said host cell is a eukaryotic cell.

53. (New) The isolated nucleic acid of claim 47, wherein said isolated nucleic acid is expressed in response to seizure or ischemia.

54. (New) The isolated nucleic acid of claim 48, wherein said nucleic acid sequence is at least 85 percent identical to said sequence set forth in SEQ ID NO:31.

55. (New) The isolated nucleic acid of claim 54, wherein said isolated nucleic acid is expressed at elevated levels within one and one half hour following seizure or global ischemia.

56. (New) An isolated nucleic acid comprising a nucleic acid sequence that encodes an amino acid sequence at least 85 percent identical to the sequence set forth in SEQ ID NO: 32.

57. (New) A host cell containing an isolated nucleic acid of claim 54 or 56.

58. (New) The isolated nucleic acid of claim 44, wherein said isolated nucleic acid hybridizes to said sense or antisense strand of said second nucleic acid under moderately stringent conditions.

59. (New) The isolated nucleic acid of claim 58, wherein said moderately stringent hybridization conditions include for 1-15 ng/mL of isolated nucleic acid probe hybridizing to said second nucleic acid bound to a nitrocellulose filter, hybridization in 25 mM KPO₄ (pH 7.4),

5X SSC, 5X Denhart's solution, 50 μ g/mL denatured sonicated salmon sperm DNA, 50% formamide, 10% Dextran sulfate at 42°C, with washes at 50°C in 2X SSC and 0.1% SDS.

60. (New) The isolated nucleic acid of claim 44, wherein said isolated nucleic acid hybridizes to said sense or antisense strand of said second nucleic acid under highly stringent conditions.

61. (New) The isolated nucleic acid of claim 60, wherein said highly stringent hybridization conditions include for 1-15 ng/mL of isolated nucleic acid probe hybridizing to said second nucleic acid bound to a nitrocellulose filter, hybridization in 25 mM KPO₄ (pH 7.4), 5X SSC, 5X Denhart's solution, 50 μ g/mL denatured sonicated salmon sperm DNA, 50% formamide, 10% Dextran sulfate at 42°C, with washes at 65°C in 0.2X SSC and 0.1% SDS.
